Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 –3 (Cancelled).

4. (Currently amended) A process for the production of an ¹⁸F-labelled tracer according to claim 1 which comprises treatment of a solid support-bound precursor of formula (Ib)

Y

wherein Y is an anion and the TRACER is of formula (Ab)

$$R^{8}$$

$$R^{9}$$

$$R^{10}$$

$$R^{4}$$

$$R^{3}$$

$$R^{10}$$

$$R^{4}$$

$$R^{3}$$

$$R^{3}$$

$$R^{4}$$

$$R^{3}$$

$$R^{4}$$

$$R^{3}$$

wherein:

 R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

one of R^3 to R^{10} is a bond to the SOLID SUPPORT-LINKER-I⁺- group in formula (Ib) and the others are independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxy, cyano, and nitro;

with $^{18}\mathrm{F}^{\text{-}}$ to produce the labelled tracer of formula (IIb)

¹⁸F-TRACER (IIb)

wherein the TRACER is as defined for the compound of formula (Ib) except that one of R³ to R¹⁰ is a bond to the ¹⁸F instead of a bond to the SOLID SUPPORT-LINKER-I⁺- group in formula (Ib);

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optionally followed by:

- (i) removal of excess ¹⁸F , for example by ion-exchange chromatography; and/or
- (ii) removal of any protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound <u>labelled tracer</u> of formula (IIb) as an aqueous solution.
- 5. (Original) A process according to claim 4 wherein the TRACER is a compound of formula (Ab1)

$$R^8$$
 NR^1R^2 (Ab1)

wherein:

 R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

 R^5 is hydrogen, C_{1-6} alkyl, or a bond to the SOLID SUPPORT-LINKER-I⁺- group in formula (Ib);

 R^8 is hydroxy, C_{1-6} alkoxy, C_{1-6} haloalkyl, C_{1-6} alkyl, or a bond to the SOLID SUPPORT-LINKER-I⁺- group in formula (Ib);

provided that only one of R⁵ and R⁸ is a bond to the SOLID SUPPORT-LINKER-I⁺- group in formula (Ib).

Claims 6-14 (cancelled).